

BR

PHASE I BOOK EXPLOITATION

SOV/5910

Ivanov, Georgiy Petrovich, Candidate of Technical Sciences

Tekhnologiya elektroiskrovogo uprochneniya instrumentov i detalay mashin  
(The Technology of Electrospark Hardening of Tools and Machine Parts) 2d ed.,  
rev. and enl. Moscow, Mashgis, 1961. 302 p. Errata slip inserted.  
8000 copies printed

Reviewer: L. Ya. Popilov, Engineer; Ed. of Publishing House: A. F. Balandin;  
Tech. Ed.: A. F. Uvarova; Managing Ed. for Literature on Cold Working of  
Metals and Machine-Tool Making: V. V. Rzhavinskiy, Engineer.

PURPOSE: This book is intended for engineers, technicians, and foremen of machine-  
building plants, repair organizations, and shops for servicing automobiles, agri-  
cultural implements, construction and road-building machines, locomotives, and  
diesels.

COVERAGE: The book reviews problems of the electrospark hardening and alloying of  
metal surfaces. The principles of this process and techniques of its appli-  
cation are outlined. New electrospark equipment and the semiautomatic head  
Card 1/1

S/117/62/000/001/006/006  
A004/A101

AUTHOR: Ivanov, G. P., Candidate of Technical Sciences

TITLE: An analytic method of selecting materials is necessary

PERIODICAL: Mashinostroitel', no. 1, 1962, 42

TEXT: The author states that, although the right choice of materials is one of the most important factors in the production of high-quality machine parts, there is, hitherto, no scientifically founded system to deal with this problem. He shows the drawbacks of the existing considerations and methods by which the materials are chosen and points out that, in most cases, materials with a very low efficiency are made use of. The author suggests an analytic method of selecting the suitable material, which consists in that each material in any possible state is designated by a multiple-digit number, each digit of which marks the quality index of definite properties. The writing order should be strictly constant, while the most important and universal characteristics are written down in the first columns, the less important ones in the following columns. The author presents a table giving an example of how the numbers of an eight-index system are grouped.

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An analytic method of selecting materials is necessary

S/117/62/000/001/006/006  
A004/A101

Materials	strength	hard- ness	ductil- ity	corro- sion resist- ance	resist- ance to wear	light- ness	cheap- ness	magnetic permeabil- ity
Lead . . . . .	0	0	9	9	0	1	4	0
Aluminum . . . . .	2	2	9	6	2	8	2	0
Copper . . . . .	3	3	9	7	3	2	3	0
C4 (SCH) 12-28								
cast iron . .	5	5	0	5	8	3	8	8
Grade 45 steel .	8	8	5	2	9	3	6	9

Provided with such a table, the designer will not select the materials by tradi-  
tion or at random; if one material needs to be replaced by another, it is easy  
to select a suitable substitute. Even if, with the increasing assortment of ma-  
terials and improvement of the method itself, these tables would have tens of  
characteristic properties after some time and thus become too intricate to be used  
by the designers, this will be compensated by using electric computers to find

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Card 3/3

EWI(d)/EWP(k)/EWP(q)/EWT(m)/BDS--AFETC/ASD--Pf-l--JD

L 11206-63

ACCESSION NR: AP3000142

S/0125/63/000/005/0034/0042

65  
60

AUTHOR: Timchenko, V. A.; Ivanov, G. P.

TITLE: Digital program control<sup>1</sup> of welders for hard facing and welding joints of intricate shape [Report at the Conference on Automatic Welding Control, Kiev, 25 December 1962]

SOURCE: Avtomaticheskaya svarka, no. 5, 1963, 34-42

TOPIC TAGS: digital program control, hard-facing dies, U-61 hard-facing welding machine

ABSTRACT: A simplified method of programing the electrode (or work) feed in building-up or complicated-configuration welding has been developed. The method uses standardized feed-path subprograms, a rather coarse (0.5-1 mm) feed per pulse, and is suitable either for a rough feed over a great length or for a precise feed over a short length. No computer or interpolator is required. A simplified method of preparing the interpolated program coded on a punched tape was patented by M. D. Litvinchuk and V. A. Timchenko (Authorship Certificate 143181, "Byulleten' izobreteniy", No. 12, 1962). A new U-61 welding machine designed and built in the Institute of Electric Welding (see Association) is intended for building up complex dies. It has the following principal characteristics: table size - 650 x 650 mm,

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ACCESSION NR: AP3000142

5  
table travel - 600 mm, electrode vertical feed - 400 mm, building-up rate - 15-45 m per hr, electrode diameter - 2-4 mm, electrode feed rate - 80-240 m per hr, welding current - 180-600 amp, arc voltage - 19-28 v, weight of the machine proper - 1,900 kg. ShD-4 step-by-step motors and ML8-14M hydroamplifiers are used in the U-61 machines. Orig. art. has: 9 formulas, 5 figures, and 1 table.

ASSOCIATION: Institut elektrosvariki im. Ye. O. Patona AN URSR (Institute of Electric Welding, Academy of Sciences URSR)

SUBMITTED: 21 Jan 63

DATE ACQ: 12 Jun 63

ENCL: 00

SUB CODE: ML, SD

NO REF SOV: 005

OTHER: 000

Card

*msd/wn*  
2/2

IVANCHENKO, O.Ya., inzh.; IVANOV, G.P.

Preparation of coarse slime at the Donetsk Central Preparation  
Plant. Obog.1 briq.vgl. no.30:36-44 '63. (MIRA 17:4)

TISHURA, V.I.; BERZIN, A.I.; IVANOV, G.P.

New type of tongs with built-in transformers. Avtom. svar.  
16 no.1:54-59 Ja '63. (MIRA 16:2)

1. Institut elektrosvarki imeni Ye.O. Patona AN UkrSSR.  
(Electric welding—Equipment and supplies)

TIMCHENKO, V.A.; IVANOV, G.P.

Numerical programmed control of machines for hard facing and  
making intricately shaped joints. Avtom. svar. 16 no.5:34-42  
My '63. (MIRA 16:11)

1. Institut elektrosvarki imeni Patona AN UkrSSR



IVANOV, G.P.; LEBEDEV, T.A.

Physical meaning of Pisson's coeff<sup>1</sup> nt. Trudy LPI no.236:  
38-46 '64. (MIRA 18:3)

YEFREMOV, F.Ye., inzh.; VINITSKIY, A.I., inzh.; IVANOV, G.S., inzh.;  
KHADZHINOV, G.G., inzh.

Use of wet ash traps in a boiler operating on industrial fuel.  
Elek. sta. 33 no.4:24-26 Ap '62. (MIRA 15:7)  
(Boilers) (Fuel)

**"APPROVED FOR RELEASE: 08/10/2001**

**CIA-RDP86-00513R000619030002-0**

**APPROVED FOR RELEASE: 08/10/2001**

**CIA-RDP86-00513R000619030002-0"**

ABSTRACT: This article describes the reaction of a surface-active substance such as polyglycol ethyl alkylphenol with the acid-catalyzed formation of petroleum-product pyrolysis, and by subsequent

SHESTOPEROV, S.V., doktor tekhnicheskikh nauk; BOGIN, N.M., kandidat tekhnicheskikh nauk; IVANOV, G.S., inzhener; LUKICHEV, N.A., inzhener; DAVYDOV, L.S., inzhener; GROMOV, V.S., inzhener; POPOV, N.A., inzhener; ZHURAVLEV, G.M., master.

Vibrators for making wire reinforced ties on stands. Transp.stroi. 6  
no.3:12-14 Mr '56. (MLRA 9:7)

(Railroads--Ties, Concrete)

IVANOV, G. S., Cand Tech Sci -- (diss) "Study of the technology of <sup>the</sup> manufacture of cross-brace concrete ties." Mos, 1957. 15 pp (Mos Order of Lenin and Order of Labor Red Banner Inst of ~~Railroad~~ Engineers of Railroad Transportation im I. V. Stalin, Chair of Construction ~~Industry~~), 110 copies (KL, 52-57, 107)

- 54 -

IVANOV, G.,

Building blast furnace ore-bin and bunker trestles. Stroitel' no. 4:  
7-8 Ap '57. (MIRA 10:6)

1. Glavnyy inzhener tresta Makstroy.  
(Trestles) (Blast furnaces)

*IVANOV, G.S.*

IVANOV, G.S., inzh.

Vibration stamping of wire-reinforced concrete railroad ties. Bet.  
1 shel.-bet. no.6:234-238 Je '57. (MLRA 10:11)  
(Railroads--Ties, Concrete)



IVANOV, G.S., inzhener.

~~How wire reinforced concrete ties are made.~~ Put' 1 put.khoz.  
no.8:11-14 Ag '57. (MIRA 10:9)  
(Railroads--Ties, Concrete)

SHESTOPEROV, S.V., doktor tekhn.nauk; IVANOV, G.S., kand.tekhn.nauk;  
ANDREYCHENKO, A.V., inzh.

Stand-mixed technique of manufacturing wire-reinforced concrete  
ties. Transp.stroi. 9 no.1:35-39 Ja '59. (MIRA 12:2)  
(Railroads--Ties, Concrete)

IVANOV, G.S., kand.tokhn.nauk; BEGICHEV, V.G., inzh.

Using assembly-line methods in making wire-reinforced cross-ties. Trans.stroi. 9 no.12:27-31 D '59.

(MIRA 13:5)

(Assembly-line methods)  
(Railroads--ties, Concrete)

..IVANOV, G.S., kand.tekhn.nauk

Testing the adhesion of reinforcements to concrete. Trudy TSNIIIS  
no.36;201-211 '60. (MIRA 13:9)  
(Reinforced concrete--Testing)

GUBANOV, L.Ya., inzh.; IVANOV, G.S., kand.tekhn.nauk

Let's manufacture more cheap reinforced-concrete ties.  
Put' i put.khoz. no.7:12-15 '62. (MIRA 15:7)  
(Railroads—Ties, Concrete)

IVANOV, G.S., kand.tekhn.nauk; BLYAKHMAN, Yu.M., inzh.; POPOV, K.A.,  
tekhnik

Automatic programmed regulator for autoclaves. Transp.stroi.  
12 no.7:36-39 J1 '62. (MIRA 16:2)  
(Automatic control) (Autoclaves)

IVANOV, G.S., kand.tekhn.nauk

Machine-press for manufacturing cement-sand insulation  
sleeves. Transp. stroi. 12 no.9:54 S '62. (MIRA 16:2)  
(Machine tools)  
(Electric insulators and insulation)

IVANOV, G.S., kand.tekhn.nauk; BALASHOV, A.A., inzh.; ISAYEV, N.M., inzh.;  
KARAMYSHEV, I.A., inzh.; LIVANOV, V.F., inzh.

Increase the production and improve the quality of reinforced  
concrete crossties. Transp. stroi. 14 no.8:23-25 Ag '64.  
(MIRA 18:1)



ACC NR: AP7000340

(A,N)

SOURCE CODE: UR/0413/66/000/022/0102/0103

AUTHOR: Katys, G. P.; Karasik, L. L.; Il'inskiy, V. M.; Mel'nichenko, B. Ye.; Ivanov, G. S.

ORG: none

TITLE: Mass flowmeter. Class 42, No. 188696

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 22, 1966, 102-103

TOPIC TAGS: flow meter, flow measurement, flow, flow analysis

ABSTRACT: An Author Certificate has been issued for a mass flowmeter consisting of two engine-driven straight-blade vanes, a stream-guide device with spring-loaded blades, and a signaling unit. To increase the instrument's measurement range and reduce its power requirements and weight, the stream-guide device is equipped with a group of blades consisting of elastic plates located in the output portions of the flat blades, with one end hinged and the other end spring-loaded. Orig. art. has: 1 figure.

SUB CODE: 20/ SUBM DATE: 17Aug65

Card 1/1

UDC: 681.121.8:531.75

IVANOV, G. S.

PA 237T72

USSR/Geophysics - Hydrology

Dec 52

"Some Problems of Marine Hydrological Observations,"  
G.S. Ivanov, State Inst of Oceanography, and N.I.  
Kozitskiy, Admin of Observation Stations

"Meteorol i Gidrol" No 12, pp 46-48

Advocate use of observations of water level at  
marine hydrolog stations, more uniform stds of  
observation, and increase in the network of sta-  
tions.

237T72

*IVANOV, G. S.*

IVANOV, G.S., otvetstvennyy red.; VLASOVA, Yu.V., red.; BRAYNINA, M.I.,  
tekhn.red.

[Instructions for hydrometeorological stations and posts]  
Nastavlenie gidrometeorologicheskim stantsiham i postam.  
Izd.2-oe. Leningrad, Gidrometeor.izd-vo. No.9. [Hydrometeoro-  
logical observations at ocean stations] Gidrometeorologicheskie  
nabliudeniia na morskikh stantsiiakh. Pt.1. [Hydrological  
observations at the shore] Pribrezhnye gidrologicheskie nabliu-  
deniia. 1956. 290 p.  
(MIRA 11:1)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologi-  
cheskoy sluzhby.  
(Oceanography) (Hydrology)

IVANOV, G.S.; KHANAYCHENKO, N.K.

Telemeter hydrometeorological station (SDS) on ships.  
Meteor. i gidrol. no.3:48-50 Mr '56. (MLRA 9:7)  
(Meteorology, Maritime) (Meteorological stations)  
(Telemetering)

IVANOV, G.S.; RODIONOV, V.S.

Instructions for nautical leveling of marine hydrographic points.  
Trudy GOIN no.40:117-131 '57. (MIRA 10:7)  
(Hydrographic surveying)

SIROTKINA, A.I., kand.geograf.nauk; IVANOVA, Z.N., mladshiy nauchnyy sotrudnik; BORISOV, N.D.. Prinsipali uchastiye: OTDELENOVA, N.N., tekhnik; SKITEYKIN, A.I., tekhnik. PERLOVSKAYA, A.D., red.; IVANOV, G.S., kand.tekhn.nauk, otv.red.; ZARKH, I.M., tekhn.red.

[Directions for meteorological and hydrological stations and posts] Nastavlenie gidrometeorologicheskim stantsiam i postam. Moskva, Gidrometeor.isd-vo. No.10. [Inspection of meteorological and hydrological stations and posts] Inspekttsiya gidrometeorologicheskikh stantsii i postov. Pt.5. [Inspection of meteorological and hydrological ship stations] Inspekttsiya sudovykh gidrometeorologicheskikh stantsii. 1959. 45 p. (MIRA 13:8)

1. Russia (1923- U.S.S.R.) Glavnoye upravleniye gidrometeorologicheskoy sluzhby. 2. Nauchno-issledovatel'skiy institut aeroklimatologii (for Sirokina). 3. Gosudarstvennyy okeanograficheskiy institut (for Ivanova). 4. Leningradskoye otdeleniye Gosudarstvennogo okeanograficheskogo instituta (for Borisov). 5. Nachal'nik Metodicheskogo otdela Gosudarstvennogo okeanograficheskogo instituta (for Ivanov).

(Meteorology, Maritime)

(Oceanography)

IVANOV, G.S.

Nomenclature of oceanographic instruments manufactured on a  
single-order basis. Btvl. Okean. kom. no.4:19-27 '60.

(MIRA 13:7)

(Oceanographic instruments--Terminology)

IVANOV, G.S., kontr-admiral v otstavke

Victory in the Arctic. Mor. sbor. 47 no.10:16-23 0 '64.  
(MIRA 18:11)



IVANOV, G.S., kontr-admiral v otstavke

Combat deeds of members of the Northern Fleet. Mor. sbor.  
48 no.2:88-91 F '65. (MIRA 18:11)

KRUGLIKOV, N.V., polkovnik meditsinskoy sluzhby; IVANOV, G.T., kand.med.nauk,  
podpolkovnik meditsinskoy sluzhby; IGnat'ev, Ye.I., dotsent, podpol-  
kovnik meditsinskoy sluzhby

Organization of first aid for wounded, their collection and evacuation  
in modern mobile warfare. Voen-med.zhur. no.8:11-16 Ag '59.

(MIRA 12:12)

(WOUNDED AND SICK)

IVANOV, G.T.

Some materials on the medico-geographical of the European part of  
the northern R.S.F.S.R. Geog. sbor. no.14:57-72 '61. (MIRA 15:1)  
(RUSSIA, NORTHERN MEDICAL GEOGRAPHY)

IVANOV, G. T.

"Endurance of the Alloy D16 in Connection With the Technology of Its Machining." Sub 3 Jul 51, Moscow Aviation Technological Inst

Dissertations presented for science and engineering degrees in Moscow during 1951.

SO: Sum. No. 480, 9 May 55

Ivanov, B. T.

18(4)

PHASE I BOOK EXPLOITATION

SOV/2686

Moscow. Aviatsionnyy tekhnologicheskii institut

Voprosy soprotivleniya materialov; prochnost' alyuminiyevykh splavov (Problems of the Strength of Materials; Strength of Aluminum Alloys) Moscow, Oborongiz, 1959. 117 p. (Series: Its: Trudy, vyp. 37) 3,600 copies printed.

Sponsoring Agency: Ministerstvo vysshego obrazovaniya SSSR.

Ed. (Title page): S.V. Serensen; Ed. (Inside book): B.V. Zaslavskiy;  
Ed. of Publishing House: L.I. Sheynfayn; Tech. Ed.: L.A. Garnukhina;  
Managing Ed.: A.S. Zaymovskaya, Engineer.

PURPOSE: This collection of articles is intended for workers of engineering design offices, industrial laboratories and scientific institutes of the machine-building industry and for research fellows and students of advanced courses in schools of higher technical education.

COVERAGE: This collection consists of 8 articles in which mechanical properties of deformed aluminum alloys are described. The load-carrying capacity of parts

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Problems of the Strength of Materials (Cont.)

SOV/2686.

made of these alloys is considered and some results of the investigation of the distribution of stresses and strains in parts and joints are given.

TABLE OF CONTENTS:

1. Peshina, Ye. The Effect of Design and Material of a Rotating Disk on Stressed Condition and Load-carrying Capacity 5  
The author considers problems of load-carrying capacity in elastic plastic conditions in connection with the special features of the diagram of the deformation of material in rotating disks.
2. Ivanov, G.T., and I.A. Skoryy. The Problem of Approximation of Deformation Diagrams 13  
The properties of the deformation diagrams analyzed for aluminum structural alloys are discussed.
3. Glatsintov, Ye. V. Effect of some Structural Parameters on the Distribution of Stresses in Fir Tree Fastenings 33  
The stressed condition in an elastic region in flexure is analyzed based on the example of a blade root fir tree fastening. The dependence of the stressed condition on the design parameters,

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Problems of the Strength of Materials (Cont.)

SOV/2686

introduction of a new combination of elastic properties of materials of the blade and disk are shown.

4. Stepanov, Ye.P. Investigation of Stresses in a Wedge Under a Triangular Load (Applied to Cutters) 52

The author uses the optic method of investigating stresses which makes possible an analysis of the applicability of corresponding theoretical solutions to the determination of a plane stressed state in cutters.

5. Kogayev, V. P. Basis for the Choice of an Equal Strength Beam for Calibrating Wire Tensometers in the Presence of Transversal Vibrations 62

In connection with the elaboration of equipment for the calibration of transmitters, calculation of an equal strength beam with transversal vibrations present is given.

6. Serensen, S.V., M.N. Stepanov, V.P. Kogayev, and Ye. V. Giatsintov. Stability of the Function of Distribution of Durability in Testing the Stability of Aviation Alloys 69

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Problems of the Strength of Materials (Cont.)

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Problems of the stability of aviation structural alloys are considered in the static aspect in order to obtain a stable distribution of durability at various levels of stress.

7. Voronov, S.M. [Deceased], and M.N. Stepanov. Fatigue Limit of Aluminum Alloy AK5 With a Slatelike Structure of Fractures 85  
The relation of fatigue to slatelike structure of fractures is analyzed in studying the stability of aviation structural alloys.
8. Stepanov, M.N. Surface Strengthening of Aluminum Alloys AK4-1 and UD17 by Hammer Hardening 96  
Fatigue resistance of cold-hammered samples with changing parameters of the strengthened layer and the mechanical properties of the layer are described. The dependence of the value of final stresses on the hammering technology is shown and the strengthened layer are determined.

AVAILABLE: Library of Congress

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31651

S/536/61/000/051/006/006  
D040/D112

AUTHORS: Ivanov, G.T., Strelyayev, V.S.

TITLE: Investigation of the mechanical properties of aluminum alloys under compression

SOURCE: Moscow: Aviatsionnyy tekhnologicheskii institut. Trudy, no.51, 1961, 90-99. Issledovaniya ustalosti i dlitel'noy prochnosti alyuminiyevykh splavov.

TEXT: The authors describe an investigation into the mechanical properties of B95 (V95), D16 (D16) and AK4-1 (AK4-1) aluminum alloys in a hardened and aged state, subjected to compression and tension; the purpose of the tests was to obtain a curve  $\sigma = f(\epsilon)$  covering a wider range, with  $\epsilon$  values of up to 10÷15%, as normally such tests are made only up to  $\epsilon = 1\%$ . The composition of the above alloys is as follows:

	<u>Cu</u>	<u>Mg</u>	<u>Mn</u>	<u>Fe</u>	<u>Si</u>	<u>Ti</u>	<u>Zn</u>	<u>Cr</u>	<u>Zr</u>	<u>Ni</u>
V95	1.75	2.45	0.32	0.34	0.22	-	6.49	0.18	0.07	-
D16	4.49	1.45	0.71	0.22	0.19	0.03	0.07	-	-	-
AK4-1	2.02	1.51	0.03	0.16	0.20	0.09	0.25	-	-	1.14

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D040/D112

The design of the test specimen (Fig.2) was chosen after a study of the effect of the type of flange and lubricant on the test results. It was recommended, to prepare the specimens from round rods and not from pressed plates, as during the pressing process the latter become anisotropic. Paraffin and stearin were used for lubricating the specimens, and oil for lubricating the pressing tools. The deformations were measured with a Martens tensometer. The experiments included an attempt to determine the Poisson factor in the elastic-plastic compression interval and the theoretical dependence of the Poisson factor on the deformation degree, using A.M.Zhukov's formula (Ref.18, Izvestiya AN SSSR, 1954, no.12); the obtained theoretical values agreed well with the empirical values. The compression curve  $\sigma = \Phi(\epsilon)$  was approximated by a linear-rational function used by G.T.Ivanov and I.A.Skoryy for the approximation of tension curves (Ref.19, Ivanov, G.T., Skoryy, I.A., K voprosu ob approksimatsii diagramm deformirovaniya [Contribution to the approximation of deformation curves], Sb. trudov MATI, vyp 37, Oborongiz, 1959). Conclusions: (1) There is no essential difference between the moduli of elasticity, elasticity limits and yield limits of the investigated alloys in the hot and aged state either during compression or during tension. (2) At high deformations ( $\epsilon > 0.5\%$ ), the modulus of hardening during compression is high-

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D040/D112

Investigation of the ...

er than the modulus of hardening during tension. (3) The Poisson factor increases with increasing deformation (up to  $\epsilon = 1.0\%$ ) up to  $0.4 \pm 0.45$ . (4) Hyperbolic approximation of tension and compression curves proved satisfactory. The following are mentioned: E. Siebel, V.D. Kuznetsov, M.A. Bol'shanina, K.K. Likharev, A.S. Kalmanok, V.R. Regel, K.V. Ruppeneyt, S.I. Ratner and Yu.S. Danilov, A.V. Rastegayev and G.D. Polosatkin. There are 7 figures, 4 tables and 19 references: 11 Soviet and 8 non-Soviet-bloc. The four most recent references to English-language publications read as follows: Stowell, E., Pridle, R., NACA Techn. Notes, 1956, N 3736; Mathäuser, Eldon, Deveikis, NACA Report, 1957, N 1308; Book of ASTM Standards, 1956, Part 2; ASTM Bulletin, 1956, N 215.

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Investigation of the ...

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D040/D112

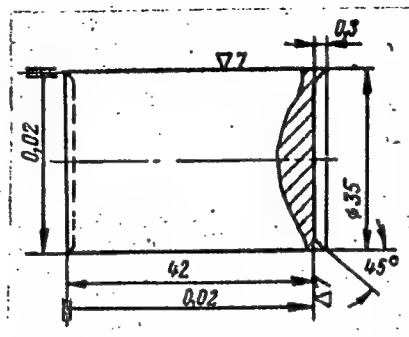


Fig. 2. Specimen for compression tests.

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SERENSEN, Sergey Vladimirovich; GIATSINTOV, Yevgeniy Valentinovich;  
KOGAYEV, Vladimir Petrovich; STEPNOV, Mikhail Nikitovich;  
Prinimali uchastiye: BAL'ZOVSKIY, F.K.; BORODIN, N.A.; VETKIN,  
I.I.; IVANOV, G.T.; ZASLAVSKIY, B.V., kand.tekhn.nauk, red.;  
NOVIK, A.Ya., tekhn.red.

[Structural strength of airplane alloys] Konstruktsionnaya  
prochnost' aviatsionnykh splavov. Moskva, Gos.nauchno-tekhn.  
izd-vo obor., 1962. 100 p. (Moscow. Aviatsionnyi tekhnologicheskii  
institut. Trudy, no.54). (MIRA 16:2)

(Aluminum alloys--Testing)

5/026, 53 010/012, 042, 043  
0217/0508

AUTHOR: Ivanov, G.T.

TITLE: Methods for testing the fatigue limit of metals

PERIODICAL: Standartizatsiya, no. 2, 1963, 22-24

TEXT: The Moskovskiy aviatsionnyy tekhnologicheskii institut (Moscow Institute of Aviation Technology) has drawn up specifications for methods of determining the fatigue limits of metals to replace the specification GOST 2860-45. Only established methods of specimen loading are dealt with, and the use of any type of machine satisfying conventional requirements is permissible. The loading methods allow fatigue testing by three types of determination: bending (both during rotation and in a fixed plane), push-pull and torsion in symmetrical and asymmetrical stress cycles. Specific shapes and sizes are recommended for the test specimens. Fatigue testing in the elastic low-cycle range at low cycle frequencies is dealt with in the scheme, and the requirements for testing special steels and other metals designed for service at high temperatures and also

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Methods for testing ...

S/023/03/000/002/003  
D217/D508

under corrosive conditions, are specified. The new standard specification, which is based on fatigue testing practice in Russia, is a counterpart of that recommended by the ISO (International Standards Organization). There are 2 figures.

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15-57-4-5255  
Translation from: Referativnyy zhurnal, Geologiya, 1957, Nr 4,  
p 167 (USSR)

AUTHOR: Ivanov, G. V.

TITLE: Probability of Encountering Mica by Drilling (O  
veroyatnosti vstrechi slyudy burovoy skvazhinoy)

PERIODICAL: Tr. Vses. n.-i. in-ta, asbesta, slyudy, asbestotse-  
ment. izdeliy i proyektir. str-va predpriyatiy slyud.  
prom-sti, 1956, Nr 5, pp 34-38

ABSTRACT: The possibility of encountering mica in a drill hole  
exists, and, consequently, the possibility of quanti-  
tative evaluation of the mica content in the vein by  
means of a core sample also exists. The author pro-  
poses determination of the mica content--1) by making  
a linear measurement of the mica in the drill hole;  
2) by measuring the volume of the individual mica  
crystals and relating it to the volume of the core

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CIA-RDP86-00513R000619030002-0

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619030002-0"

IVANOV, G. V.

"Investigation and Selenation of Feeder Elements and a Housing for a Double Intake Centrifugal Shaft Ventilator." Cand Tech Sci, Donets Industrial Inst, Stalino, 1954. (RZhMekh, Feb 55)

SO: Sum. No. 631, 26 Aug 55 - Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (14)

"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619030002-0

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"APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619030002-0

One Airframe Express  
maintains 50-40% of the  
are tentative.

APPROVED FOR RELEASE: 08/10/2001

CIA-RDP86-00513R000619030002-0"

IVANTSOV, V.V., gornyy inzhener-elektromekhanik; KHANOV, P.P., starshiy nauchnyy sotrudnik; BABAK, G.A., mladshiy nauchnyy sotrudnik; KOLYSHKIN, O.M., aspirant; IVANOV, G.V., kandidat tekhnicheskikh nauk; ZHUMAKHOV, I.M., dotsent.

Ways of improving pumping installations and main ventilation fans for the mining industry; discussion of I.M. Zhumakhov's article. Gor.zhur. no.12:36-40 D '56. (MIRA 10:1)

1. Unipromed (for Ivantsov). 2. Vsesoyuznyy ugol'nyy institut (for Khanov and Kolyshkin) 3. Institut gornogo dela Akademii nauk USSR (for Babak) 4. Molotovskiy gornyy institut (for Ivanov) 5. Moskovskiy gornyy institut (for Zhumakhov).

(Mine pumps) (Mine ventilation)

IVANOV, G.V., kand.tekhn.nauk

Publication which cannot serve as a textbook ("Pumps, fans and compressors" by I.M. Zhumakhov. Reviewed by G.V. Ivanov). Ugol' Ukr. 5 no.2:44 P '61. (MIRA 14:3)  
(Coal mining machinery) (Zhumakhov, I.M.)

IVANOV, G.V.

Possibility of improving core documentation. Razved. i okh.  
nedr 28 no.8:48 Ag '62. (MIRA 15:8)

1. Irkutskoye geologicheskoye upravleniye.  
(Core drilling)



IVANOV, G.V.

Practice of digging prospecting trenches with artificial eroding streams.  
Razved.i okh. nedr 29 no.1:35-39 Ja '63. (MIRA 16:2)

1. Mamsko-Chuyskaya ekspeditsiya.  
(Prospecting) (Earthwork)

IVANOV, G.V., dotsent

Estimate of leakage in the rotor of a radial mine fan. Izv.vys.ucheb.  
zav.;gor.zhur. 7 no.7:121-124 '64. (MIRA 17:10)

1. Permskiy politekhnicheskii institut. Rekomendovana kafedroy  
gidravliki i gidravlicheskiikh mashin.

IVANOV, G.V.

Errors in the calculation of mineral reserves and some  
ways of reducing them. Sov.geol. 8 no.11:144-152 N '65.  
(MIRA 19:1)

1. Irkutskoye geologicheskoye upravleniye.

ACC NR: AP6034397

SOURCE CODE: UR/0195/66/007/005/0788/0794

AUTHOR: Komarov, V. F.; Boldyrev, V. V.; Zhuravlev, V. K.; Ivanov, G. V.

ORG: Tomsk Polytechnical Institute im. S. M. Kirov (Tomskiy politekhnicheskiy institut); Institute of Chemical Kinetics and Combustion, SO AN SSSR (Institut khimicheskoy kinetiki i goreniya SO AN SSSR)

TITLE: The mechanism of the effect of preliminary irradiation on the rate of thermal decomposition of ammonium perchlorate

SOURCE: Kinetika i kataliz, v. 7, no. 4, 1966, 788-794

TOPIC TAGS: ammonium perchlorate, thermal decomposition, irradiation effect, contaminant effect, chlorate ion, chloride ion, radiation induced defect, ammonium compound, perchlorate, x ray irradiation

ABSTRACT: A study has been made of the acceleration mechanism of the thermal decomposition of high-purity  $\text{NH}_4\text{ClO}_4$  preliminarily irradiated at room temperature with 200 kev x-rays on an RUP-200 apparatus. The decomposition rate of irradiated  $\text{NH}_4\text{ClO}_4$  was compared with that of nonirradiated  $\text{NH}_4\text{ClO}_4$  and of  $\text{NH}_4\text{ClO}_4$  contaminated with  $\text{ClO}_3^-$  and  $\text{Cl}^-$  ions. The results of experiments conducted at 236°C are given in figures 1 and 2. Curves 1, 2, 3 and 4 pertain to pure  $\text{NH}_4\text{ClO}_4$ ,  $\text{NH}_4\text{ClO}_4$  containing 0.153 mol%  $\text{ClO}_3^-$ ,  $\text{NH}_4\text{ClO}_4$  containing 1.13 mol%  $\text{ClO}_3^-$ , and  $\text{NH}_4\text{ClO}_4$  irradiated with a dose of  $4.5 \times 10^6$  rad, respectively. Discussion of the mechanism of the thermal decomposition of pure  $\text{NH}_4\text{ClO}_4$  led to the conclusion that the decomposition is a result of losses of electrons by  $\text{ClO}_4^-$  ions to form  $\text{ClO}_4^\cdot$  free radicals. The electrons  
Card 1/3 UDC: 546.39'137:541. 5

ACC NR: AP6034397

are gained by impurity levels such as  $\text{ClO}_3^-$  ions formed in the course of the decomposition (Table 1). Theoretical analysis of the processes taking place and experimental

Table 1. Impurity content in the solid  $\text{NH}_4\text{ClO}_4$  residue

Degree of decomposition of $\text{NH}_4\text{ClO}_4$ , %	Impurity content, mol%	
	$\text{Cl}^-$	$\text{ClO}_3^-$ , $\text{ClO}_2^-$ , $\text{ClO}_2^-$
16.1	0.301	0.275
23.0	0.101	0.068
30.0	0.025	0.024

results indicated that the reaction rate of the thermal decomposition of  $\text{NH}_4\text{ClO}_4$  increases with a decrease of the concentration of free electrons in  $\text{NH}_4\text{ClO}_4$ . In the case of irradiated  $\text{NH}_4\text{ClO}_4$ , the formation of  $\text{ClO}_3^-$  ions is probably not the only factors that accelerates thermal decomposition. Three possible additional factors are considered: 1) the arrangement of  $\text{ClO}_3^-$  ions formed at irradiation is not that it increases their catalytic activity; 2) formation of additional radiolysis products such as, among others,  $\text{Cl}^-$  ions; however, no acceleration was observed on addition to  $\text{NH}_4\text{ClO}_4$  of the same amounts of  $\text{Cl}^-$  ions as are formed on irradiation; 3) formation of radiation-induced defects. Among these factors, the formation of defects appears to be most probable. Determination of the type of these defects requires further studies. A

Card 2/3

ACC NR: AP6034397

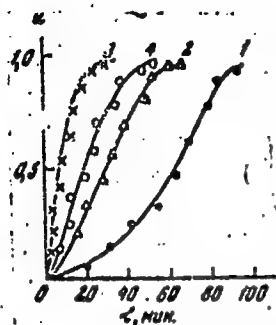


Fig. 1. Effect of irradiation or addition of  $\text{ClO}_3^-$  ions on the thermal decomposition of  $\text{NH}_4\text{ClO}_4$ .

$\alpha$  - Portion of reacted substance;  $\alpha = 1$  is the decomposition of 30% of the salt specimen (maximum decomposition at low temperatures).

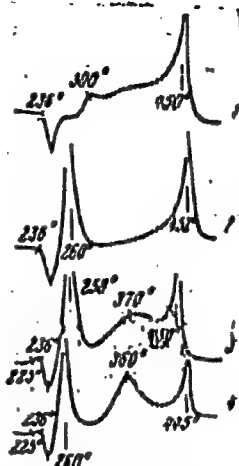


Fig. 2. Thermograms of pure, irradiated and contaminated  $\text{NH}_4\text{ClO}_4$ .

similarity was established in the nature of changes of conduction, dielectric losses and decomposition rate on contamination and irradiation of  $\text{NH}_4\text{ClO}_4$ . This fact indicates that, in both cases, these changes are due to the same defects. Orig. art. has: 4 figures and 2 tables.

SUB CODE: 20 / SUBM DATE: 18May65/ ORIG REF: 010/ OTH RE: 017/

Card 3/3

IVANOV, G.V. (Novosibirsk)

Conditions of the intersection of the lines of rupture  
stresses in flat plastic deformation. PMTF no.4:73--  
74 N-D '60. (MIRA 14:7)

(Strains and stresses)  
(Deformations(Mechanics))

IVANOV, G. V.

Cand Phys-Math Sci - (diss) "Generalization on the example of non-elastic deformations of the classical criterion of equilibrium stability for elastic deformations." Novosibirsk, 1961. 12 pp; (Academy of Sciences USSR, Siberian Division, Joint Academic Council for Phys-Math and Tech Sci); 250 copies; price not given; (KL, 10-61 sup, 204)



IVANOV, G.V. (Novosibirsk)

Stability of the equilibrium of compressed and bent thin rods in  
the case of inelastic deformations. PMTF no.3:74-84 S-O '61.  
(MIRA 14:8)

(Elastic rods and wires) (Deformations (Mechanics))

IVANOV, G.V. (Novosibirsk); NEMIROVSKIY, Yu.V. (Novosibirsk);  
RABOTNOV, Yu.\*. (Novosibirsk)

Dynamics of a rigidly plastic system of cross bracings. Izv.  
AN SSSR Otd. tekhn. nauk. Mekh. i mashinostr. no.2:51-57  
Mr-Apr '63. (MIRA 16:6)

(Structural frames)

17035-63

ENR (G)/FWRM/ROS AFFTC/ASE JJ/HW

S/207/63/000/002/012/025

54

**AUTHOR:** Ivanov, G. V. (Novosibirsk)  
**TITLE:** Stability of layer equilibrium according to the theory of plastic flow  
**PERIODICAL:** Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 2, 1963, 108-112

**TEXT:** The author investigates the compression along one direction of a plate shown on Fig. 1 whose all sides are fixed, or two sides are fixed and two are free. The critical stresses were determined using the criterion given by the author in an earlier article (Ref. 1: PMTF, 1961, No. 1) with the restriction that during the transition from the ground state to the adjacent one no perturbations are permitted which would cause a relief from the load. The plate material is assumed incompressible. The critical stresses found using the theory of plastic flow are slightly smaller but still quite close to those calculated in the theory of small elastically-plastic deformations using the criterion given in Ref. 1, or the Shanley criterion. There are 3 figures.

Card 1/2

17035-63

8/207/63/000/002/012/025

Stability of layer equilibrium...

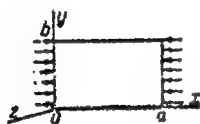


Fig. 1

SUBMITTED: October 18, 1962

Card 2/2

L 9929-63 EMP(r)/EWT(m)/BDS-EM  
ACCESSION NR: AP3002815

S/0207/63/030/003/0111/0116

AUTHOR: Ivanov, G. V. (Novosibirsk)

TITLE: On plastic stability of a cylindrical shell under axial compression

SOURCE: Zhurnal prikladnoy mekhaniki i tekhnicheskoy fiziki, no. 3, 1963,  
111-116

TOPIC TAGS: axially compressed cylindrical shell, plastic stability

ABSTRACT: The axisymmetrical buckling of a cylindrical shell subjected to axial compression is examined under the assumptions that the material of the shell is incompressible and the strain-hardening process is linear. Buckling stresses are determined by means of a criterion previously derived by the author whose application does not cause the known paradox encountered when Shanley's stability criterion is used. The erroneous nature of the solution contained in an article by L. H. N. Lee (Inelastic Buckling of Initially Imperfect Cylindrical Shells Subject to Axial Compression. Journal of the Aerospace Sciences, vol. 29, no. 1, 1962) is pointed out as is the associated unsubstantiated conclusion that the

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L 9929-63

ACCESSION NR: AP3002815

consideration of initial imperfections does not help to avoid the paradox. The concept of additional stresses, strains, and displacements (caused by the change of the axial compression force) is used in deriving the expressions for critical stresses  $\sigma_{cr}$  from equations of the theory of plastic flow with strain hardening. Formulas are given for critical stresses  $\sigma_{pf}$  and  $\sigma_{ss}$  derived by other authors by using the theory of plastic flow and the theory of small elastoplastic strains, respectively, under the assumptions of incompressibility and linear strain hardening of the shell material. The relationships between nondimensional ratios of each of these critical stresses and of the Euler critical stress to the yield point are plotted in a diagram which shows that there is no paradox. The cause of the error in Lee's article is discussed. Orig. art. has: 1 figure and 22 formulas.

ASSOCIATION: none

SUBMITTED: 09Feb63

DATE ACQ: 16Jul63

ENCL: 00

SUB CODE: 00

NO REF SOV: 006

OTHER: 003

93/16  
Card 2/2

IVANOV, G.V. (Novosibirsk)

Variational methods of solving problems concerning the deformation and stability of plates and shells in creep. PMTF  
no.5,148-150 S-0 '63. (MIRA 16:11)

IVANOV, G.V. (Novosibirsk)

Variational methods in the theory of creep. Prikl. mat. i mekh. 27  
no.4:750-752 J1-Ag '63. (MIRA 16:9)  
(Creep of materials) (Calculus of variations)



IVANOV, G.V.(Novosibirsk)

Stability with respect to plastic deformations of a cylindrical shell  
subject to axial compression. PMTF no.3:111-116 My-Je '63.

(MIRA 16:9)

(Deformations (Mechanics))

L 04975-67 EWT(d)/EWT(m)/EWP(w)/EWP(v)/T/EWP(t)/ETI/EWP(k) LJP(c) JD/WV/IN

ACC NR: AP6030811

SOURCE CODE: UR/0424/66/000/003/0089/0098

AUTHOR: Ivanov, G. V. (Novosibirsk); Shepelenko, V. N. (Novosibirsk)

ORG: none

TITLE: Buckling and snapping under creep conditions of a square cylindrical panel compressed along its directrix

SOURCE: Inzhenernyy zhurnal. Mekhanika tverdogo tela, no. 3, 1966, 89-98

TOPIC TAGS: creep buckling, creep snapping, panel buckling, panel snapping, shell buckling, shell snapping, *creep, buckling, cylindric shell structure*

ABSTRACT: A square cylindrical panel compressed along its directrix is used as a model in a theoretical study of the buckling and the following oil-can effect of a cylindrical shell subjected to axial compression under creep conditions. The study is based on variational formulation of the creep problem for shallow cylindrical shells applying the power law to the flow with a certain index of creep. Only two methods used in overcoming the difficulties associated with determining the stress distribution along the shell thickness are discussed: 1) assuming that strains deviate slightly from the membrane state in the shell; the relations between stresses and strain rate are linearized with respect to differences between these quantities in membrane and nonmembrane states; and 2) assuming a linear stress distribution over the shell thickness, and determining the real distribution parameters by a

Card 1/2

L 04975-67

ACC NR: AP6030811

variational method based on variations of stresses and displacements. It is shown by way of comparison, that the results obtained for linear and nonlinear stress distributions are practically identical in the case of creep buckling of a square cylindrical panel with nondeformable edges compressed along its directrix. The phenomenon of snapping under creep conditions is discussed as an instantaneous transition of the shell from one mode of equilibrium to another. A system of ten differential equations for determining the stresses, deflections, and snapping of the panel under creep conditions are derived, starting with the solution of this problem for the elastic range (the initial state for the creep when the time parameter  $\tau = 0$ ). A way of simplifying this system is outlined, its numerical integration by the Runge-Kutta method is discussed, and the results are presented. Conclusions concerning snapping (time, critical load), equilibrium modes, and the effect of linearizing the creep law on the panel behavior are drawn. Orig. art. has: 4 figures and 22 formulas. [VK]

SUB CODE: 20/ SUBM DATE: 14Aug65/ ORIG REF: 008/ OTH REF: 002

Card

2/2 *feh*

Ivanov, G. V.

AID P - 4005

Subject : USSR/Hydr. Eng.  
Card 1/1 Pub. 35 - 12/18  
Author : Ivanov, G. V., Eng.  
Title : On regulating eroding flood waters by a system of ponds.  
Periodical : Gidro. stroi., 8, 35, 1955  
Abstract : A mathematical analysis of the design of artificial ponds, considering river fall, distance between ponds, etc.  
Institution : None  
Submitted : No date

SOV/124-57-5-5790

Translation from: Referativnyy zhurnal. Mekhanika, 1957, Nr 5, p 107 (USSR)

AUTHORS: Shifrin, S. M., Ivanov, G. V.

TITLE: Analog Simulation of Vertical Settling Tanks (Modelirovaniye vertikal'nykh otstoynikov)

PERIODICAL: Nauch. tr. Leningr. inzh.-stroit. in-ta, 1955, Nr 20, pp 38-58

ABSTRACT: Description of a laboratory method and the results derived therefrom are given relative to the investigation of vertical settling tanks with the aim of developing an efficient system of settling tanks for the sewerage-purging system of the Leningrad Meat-processing Plant currently being rebuilt (8 vertical circular settling tanks of usual design with a 6-m diameter and an 8-m height). The investigations were conducted at the laboratory of the LSI (Leningrad Structural Engineering Institute) with the aid of a model manufactured out of plexiglas and scaled to 1:15. The simulation was conducted according to the A. G. Averkiyev method (Vses. n.-i. in-t gidrotekhn., 1952) based on the analog simulation of a free surface with the substitution of a pressure flow for the free-surface flow. The authors consider it feasible to evaluate the hydraulic performance characteristic of the

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SOV/124-57-5-5790

Analog Simulation of Vertical Settling Tanks

settling tank according to the coefficient of water circulation, i. e., the ratio of the sum total of the transient and twice the circulatory discharge of water divided by the transient discharge at the characteristic cross section of the settling tank.

Kh. A. Navoyan

Card 2/2

AUTHOR: Ivanov, G.V. SOV/5-33-1-11/25

TITLE: New Data on the Dynamic Structure of Mud- and Stone-Carrying Streams (Novyye dannyye o dinamicheskoy strukture selevykh potokov)

PERIODICAL: Byulleten' Moskovskogo obshchestva ispytateley prirody, Otdel geologicheskiiy, 1958, Vol 33, Nr 1, pp 107-121 (USSR)

ABSTRACT: The author for 4 years studied the composition and dynamic structure of mud- and stone-carrying streams (created artificially for the purpose of study), and the measures of protection to be taken against them. He describes different phases and aspects of such streams, moving downhill, in which both the liquid and solid elements play an equally active part. Large fragments of rocks brought into motion by other fragments or by the liquid element of the stream move forward under the impulse of gravity, and the stream as a whole, gains an enormous inertial strength. As an effective defence against such streams the author proposes the

Card 1/2

SOV/5-33-1-11/25

New Data on the Dynamic Structure of Mud- and Stone-Carrying Streams

erection of either reinforced concrete buttresses arranged in a checkered manner in the bed of streams or of a series of dikes located upstream near inhabited places, as it is done for the regulation of mountain streams in W.Europe. In the foot note, the editors invite further discussion on this subject. Some of the author's findings are said to be valuable, but on the other hand, some of them are not sufficiently substantiated. The following geologists are cited by the author: M.A. Velikanov, S.V. Obruchev, S.M. Fleyshman, N.S. Dyurnbaum and M.S. Gagoshidze. There are 3 cross-sections, 1 scheme and 10 Soviet references.

Card 2/2



IVANOV, G. V., Candidate Tech Sci (diss) -- "Investigation of clarifiers for waste waters". Leningrad, 1959. 19 pp (Min Higher Educ USSR, Leningrad Order of Labor Red Banner Construction Engineering Inst, Chair of Sewerage), 150 copies (KL, No 21, 1959, 115)

IVANOV, G V.

Using an electronic computer to determine the errors in the  
estimation of reserves. Razved. i okh. nadr 31 no.2:15-17  
F '65. (MIRA 18:3)

1. Kompleksnaya tematicheskaya ekspeditsiya Irkutskogo geolo-  
gicheskogo upravleniya.

177T101

IVANOV, G.

Dec 50

USSR/Radio - Receivers

"Feedback in the Moskvich Receiver," G. Ivanov,  
Rastorguyev, Moscow Oblast

"Radio" No 12, p 51

Shows how sensitivity of "Moskvich" receiver  
can be increased by using feedback. After changes,  
the "Moskvich" can receive many radio stations  
in other cities with sufficient vol for most rooms.

177T101

IVANOV, G. (Engr. Lt. Col.)

"Television in Military Activity - General Principles and Capabilities,"  
Red Star, 21 Jun 55

"General Principles and the Use of Television for Military Purposes,"  
from the book Modern Military Technology, 1956, page 201.

Translation 1114585

*Ivanov, G. V.*

USSR / Radiophysics

I

Abs Jour : Ref Zhur - Fizika, No 4, 1957, No 10042

Author : Ivanov, G. V.

Inst : Not given

Title : Control Over the Width of the Radiation Spectrum of a Radio Station.

Orig Pub : Vestn. svyazi, 1956, No 10, 3-5

Abstract : Description of a radio spectrometer, developed by the center for technical radio control of the Ministry of Communication, USSR. A method of measuring the width of the radiation spectrum of a radio station with the aid of a radio spectrometer, and also with the aid of a radio receiver with a quartz filter, is considered.

*Chief Engr., Ts TRK*

Card : 1/1

AUTHOR: Ivanov, G., Leningrad 107-58-6-55/58  
TITLE: Installing a Transformer (Ustanovka transformatora)  
PERIODICAL: Radio, 1958, Nr 6, p 61 (USSR)  
ABSTRACT: In order to save space and additional parts for fastening  
a powerful radio transformer to the chassis, the author suggests  
to making a H-shaped cut and bending edges outward.  
There is one sketch.  
Card 1/1 1. Transformers-Installation

IVANOV, G.V., inzh.; SOBOLEVSKIY, Ye.A., inzh.; ALTUNIN, V.I., inzh.

Determination of the frequency bandwidth of the rise and fall  
of a signal with respect to time. Vest. sviazi 24 no.12:6-8  
D '64 (MIRA 18:2)



L 32678-66 EWT(m)/EWP(k)/EWP(t)/ETI IJP(c) JD/HW

ACC NR: AP6006440

SOURCE CODE: UR/0420/65/000/003/0084/0085

AUTHORS: Lopatin, A. I.; Balyberdin, V. V.; Chumachenko, V. S.; Fomenko, V. I.;  
Ivanov, G. V.; Trubchaninov, F. A.; Kirichenko, R. F. 18

ORG: none 12

TITLE: Radiotechnical method for measuring the motion parameters of the blank during sheet metal stamping 16

SOURCE: Samoletostroyeniye i tekhnika vozdushnogo flota, no. 3, 1965, 84-85

TOPIC TAGS: metal stamping, test instrumentation, UHF instrument

ABSTRACT: A mostly qualitative description of a radiotechnical method for measuring the displacement<sup>10</sup> of the die during sheet metal stamping is briefly presented. The method consists of attaching a metal "flag" to the die and using this flag to partially block the path between two ultrahigh frequency waveguides, one of which serves as a transmitter and the other as detector. After calibrating the change in transmitted UHF energy as a function of flag position in the gap between the guides, this curve can be used to interpret the die motion (position or velocity) as recorded on an oscilloscope during a stamping operation. Any centimeter range UHF generator can be used. A sample calibration curve and a sample stamping curve are presented without details or specifications as to operating ranges, accuracy, etc. Orig. art. has: 3 figures.

SUB CODE: 13/ SUBM DATE: none/ ORIG REF: 001  
Card 1/1 p. 16

IVANOV, G.V.

Methods of quantitative determination of minerals in coarse-grained  
rocks. Zap.Vost.-Sib.otd.Vses.min. ob-va no.1:104-108 '59.  
(MIRA 14:7)

1. Trest "Sibgeolnerud".  
(Mineralogy, Determinative)

IVANOV, Georgiy Vasil'yevich; PAVLIN, D.V., red.; YERMAKOV, M.S.,  
tekhn.red.

[Collective-farm membership] Chlenstvo v kolkhoze. Moskva,  
Izd-vo Mosk.univ., 1960. 31 p. (MIRA 13:12)  
(Collective farms)

IVANOV, Georgiy Vasil'yevich; YEFIMOV, O.S., red.; LAZAREVA, L.V.,  
tekhn.red.

[Income distribution on collective farms] Raspredelenie  
dokhodov v kolkhosakh. Moskva, Izd-vo Mosk.univ., 1961.  
41 p. (MIRA 14:3)  
(Collective farms--Income distribution)

IVONOV G. YA.

DECEASED

1963/3

RESEARCH, INDUSTRIAL

(1962)

L 32214-66 EWP(1) WH/RM  
ACC NR: AP6020811

SOURCE CODE: BU/0011/65/018/006/0529/0532

31  
B

AUTHOR: Ivanov, H.; Anghelova, I.

ORG: Department of Organic Chemistry, Faculty of Chemistry, Sofia University

TITLE: Preparation of Beta, Beta-diphenylglutaric acid and its derivatives

SOURCE: Bulgarska akademiya na naukite. Doklady, v. 18, no. 6, 1965, 529-532

TOPIC TAGS: ester, stereo chemistry, organic nitrile compound, organic synthetic process

ABSTRACT: In need of dinitrile and certain esters of the  $\beta, \beta$ -diphenylglutaric acid for stereochemical investigations, and not possessing the necessary recipe for the production of the acid and its diethyl ester (N. L. Phalnikar, K. S. Nargrund, J. Univ. Bombay, 5, 1956, (pt. 2), 105), the authors tried to synthesize the dinitrile by adding acetonitrile to the nitrile of  $\beta$ -phenylcinnamic acid. The method for synthesizing  $\beta, \beta$ -diphenylglutaronitrile end, from it, the  $\beta, \beta$ -diphenylglutaric acid described in the article is very convenient and in contrast with the recently published method of T. C. Bruice and W. G. Bradbury (J. Organ. Chem., 28, 1963, 3403) it offers also the possibility of easy preparation of monamide and amide of the same acid. This paper was presented by Academician D. Ivanov on 22 January 1965. Orig. art. has: 1 formula. [Orig. art. in Eng.] [JPRS]

SUB CODE: 07/ SUBM DATE: 22Jan65/ OTH REF: 005  
Card 1/1 LS

BULGARIA/Cultivated Plants - Fruits. Berries.

Abs Jour : Ref Zhur - Biol., No 4, 1958, 15796 M.  
Author : I. Ivanov, K. Katerov  
Inst :  
Title : The Vrachanskiy Muscadine, a Valuable Variety for  
Domestic Viticulture and Wine Making.  
(Vrachanskiy muskat-tsenny sort dlya nashogo vinogradar-  
stave i vinodeliya).  
Orig Pub : Lozarstvo i vinarstvo, 1956, 5, No 4, 206-210  
Abstract : No abstract.

Card 1/1

IVANOV, I.

"Installation of bearings on small mining cars."

p.36 (Tekhnika, Vol. 6, no. 8, 1957, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958



IVANOV, I.

"Introducing lifting machines with friction plates in the Bulgarian mines."

p.18 (Tekhnika, Vol. 7, no. 2, 1958, Sofia, Bulgaria)

Monthly Index of East European Accessions (EEAI) LC, Vol. 7, No. 8, August 1958

GOLOVANOV, N., zaslužennyy master sporta; IVANOV, I., kapitan; MOISEYEV, V.;  
SOBKOV, V.; SHIMANOV, N., general-polkovnik aviatsii zapasa

Facts, events, people. Kryl. rod. 15 no.11:26-27 N '64.

(MIRA 18:3)

IVANOV, I'

"Calculating and proving the total excess in a first-class triangulate net."

GODISHNIK: Vol. 4, No. 2, 1956/57; Sofia, Bulgaria

Monthly list of EAST EUROPEAN ACCESSIONS INDEX (EEAI), Library of Congress,  
Vol. 8, No. 8, August, 1959

Unclassified

IVANOV, I., inzhener.

Machinery in loading tailings at the elevator of the Dnepropetrovsk  
mill. Muk.-elev. prom. 23 no.6:25-26 Je '57. (MIRA 10:9)

1. Dnepropetrovskoye zavodoupravleniye No.1.  
(Grain handling machinery)